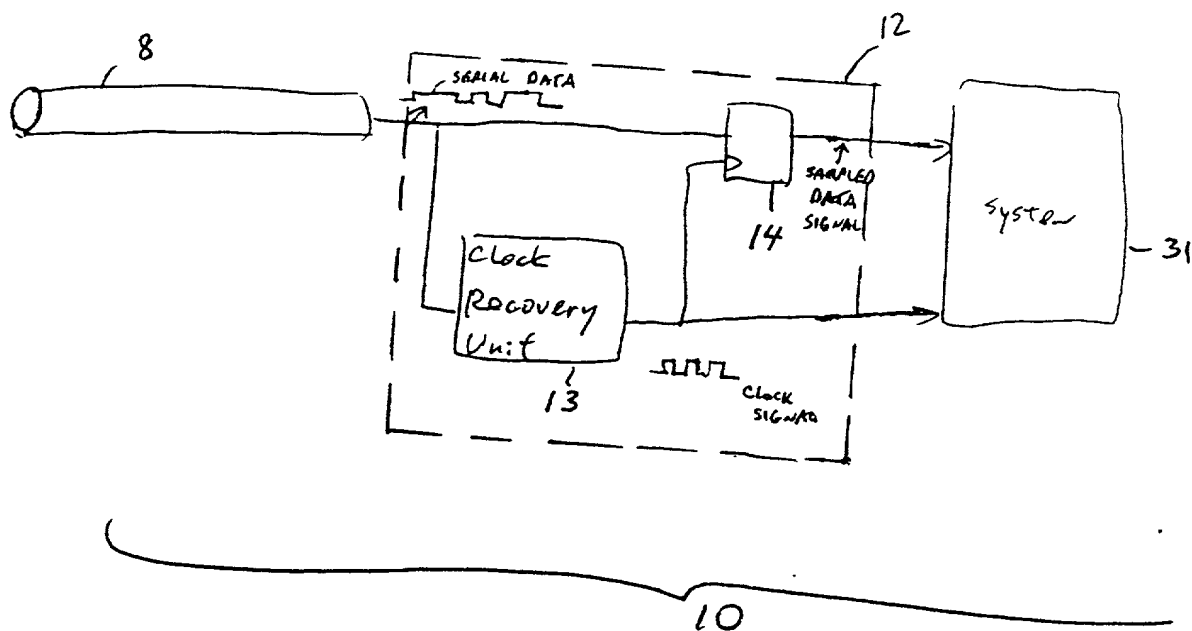


FIG. 1

PRIOR ART



PRIOR ART

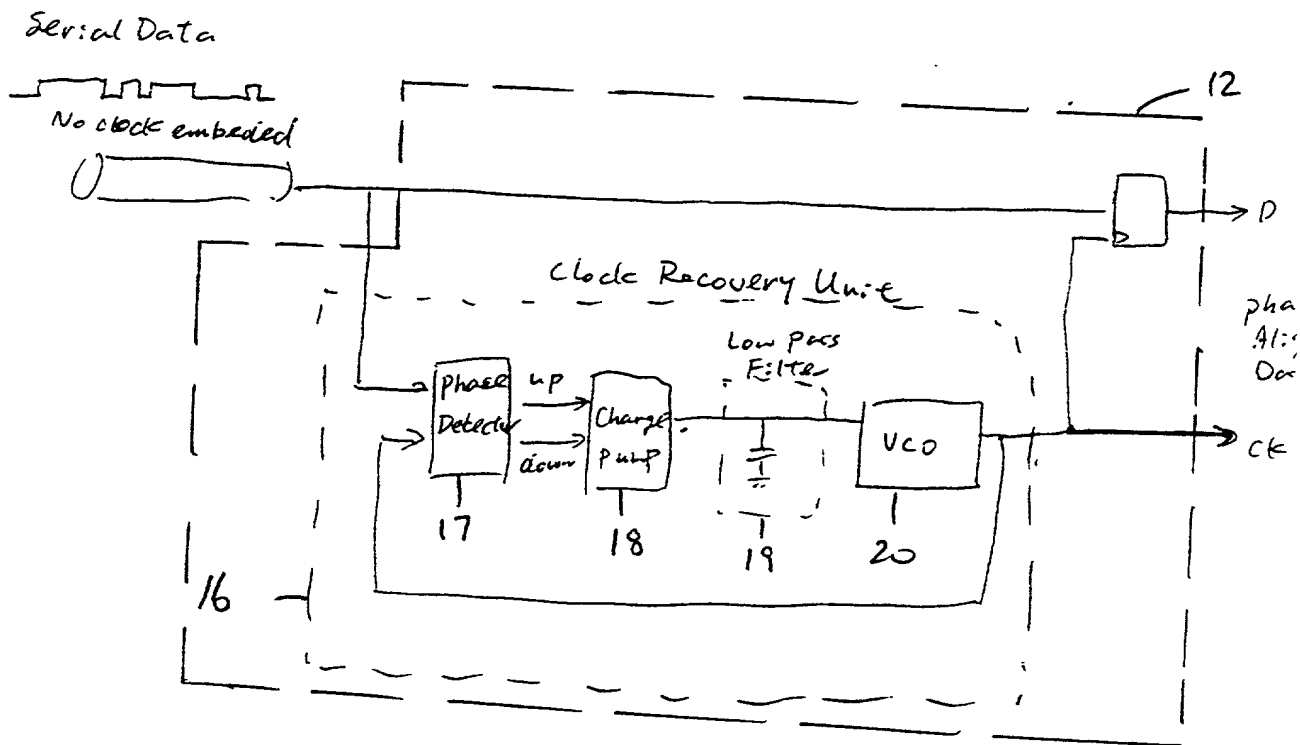
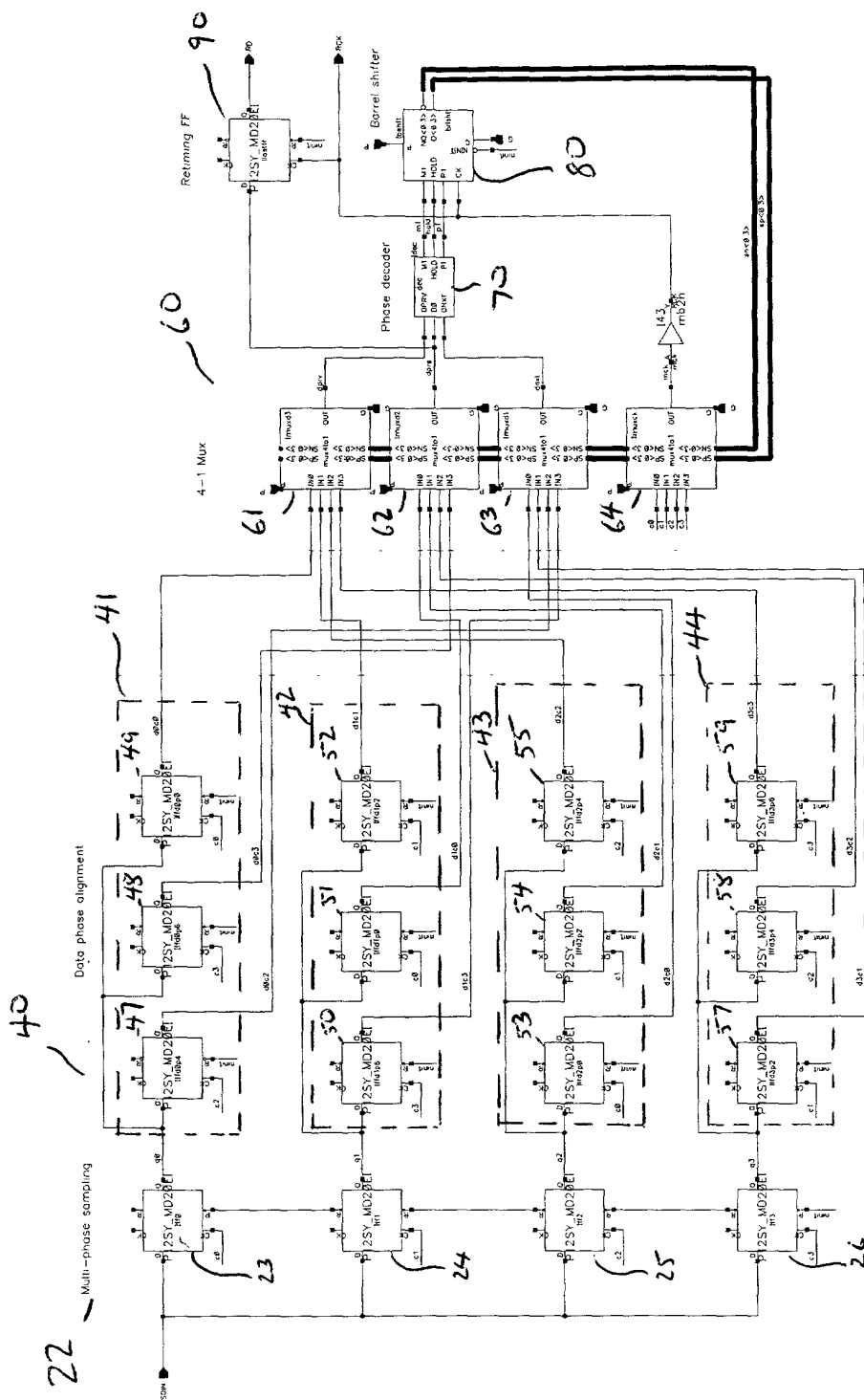


FIG. 2

[illegible]

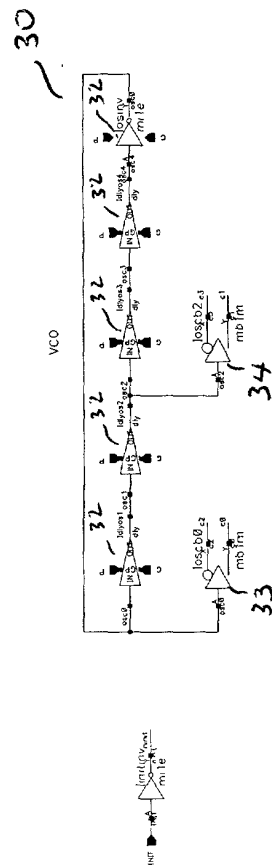
Multi-phase sampling

Data phase alignment

Retiming FF

phase decoder

FL 39



vco

F16.3b

FIG. 4

TABLE 20-8227650

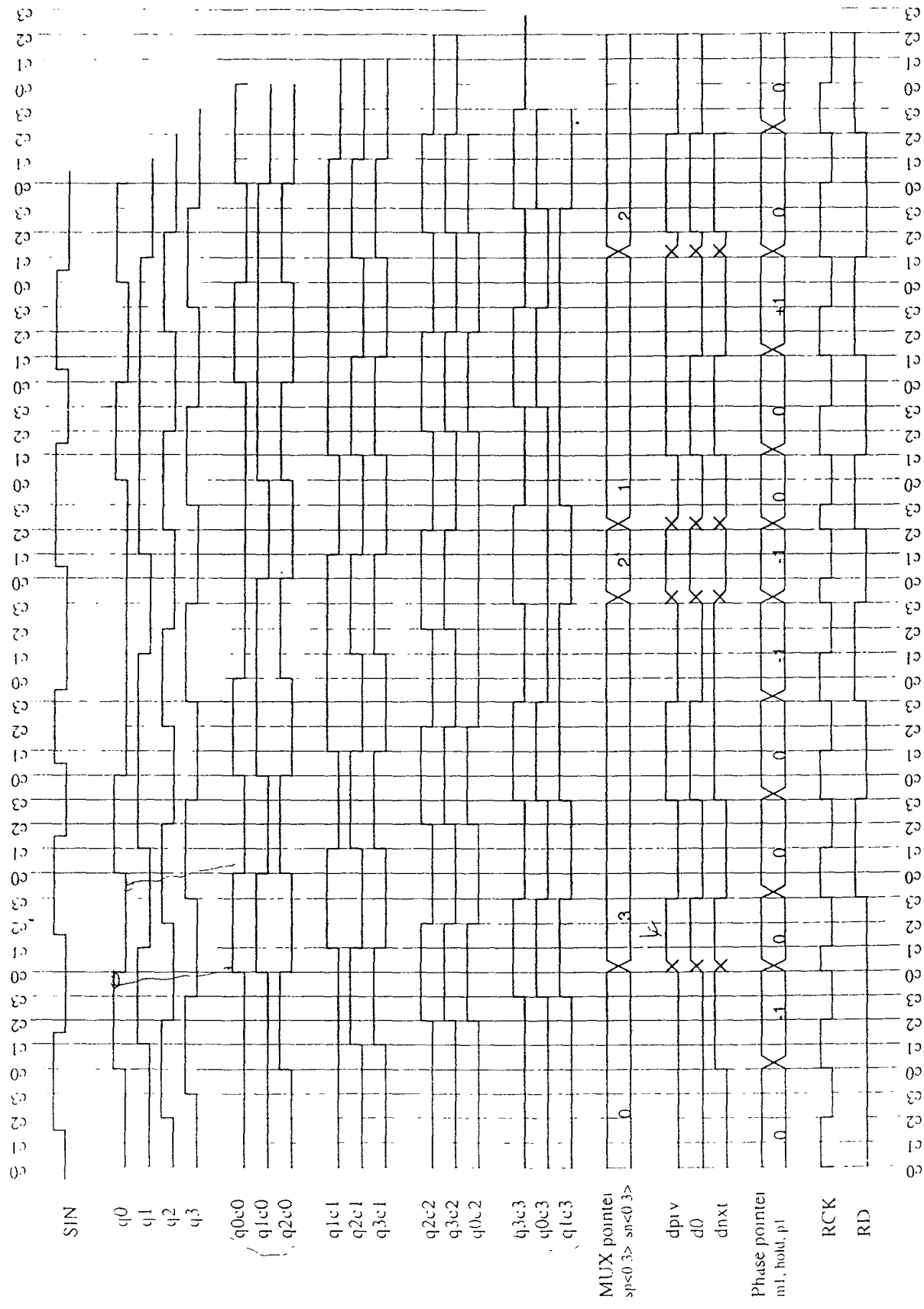


FIG. 6

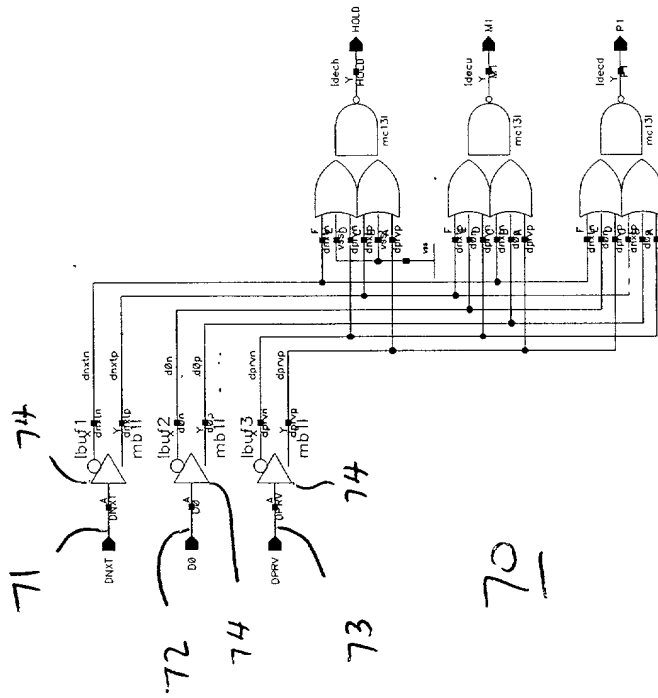


FIG. 5

DPRV	D0	DNXT	M1	HOLD	P1
H	H	L	L	L	L
L	L	H	H	L	L
H	L	L	L	H	L
L	L	L	L	L	H
H	L	L	L	L	H
L	H	H	L	L	L

FIG. 7

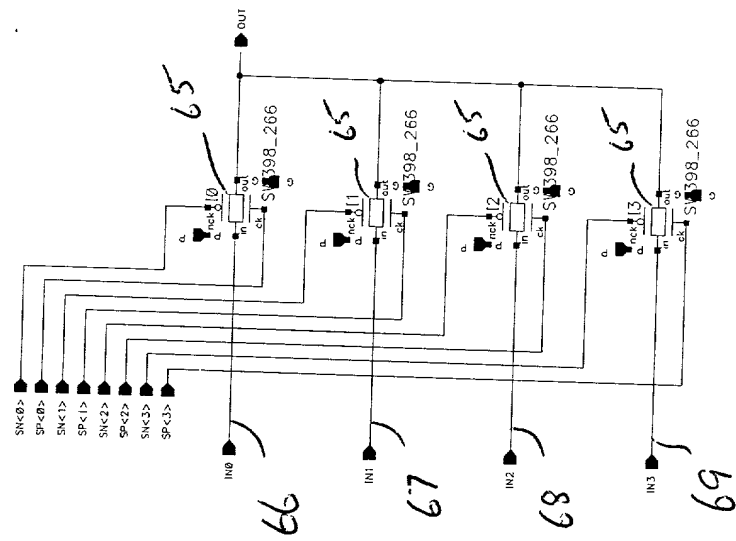


FIG. 8

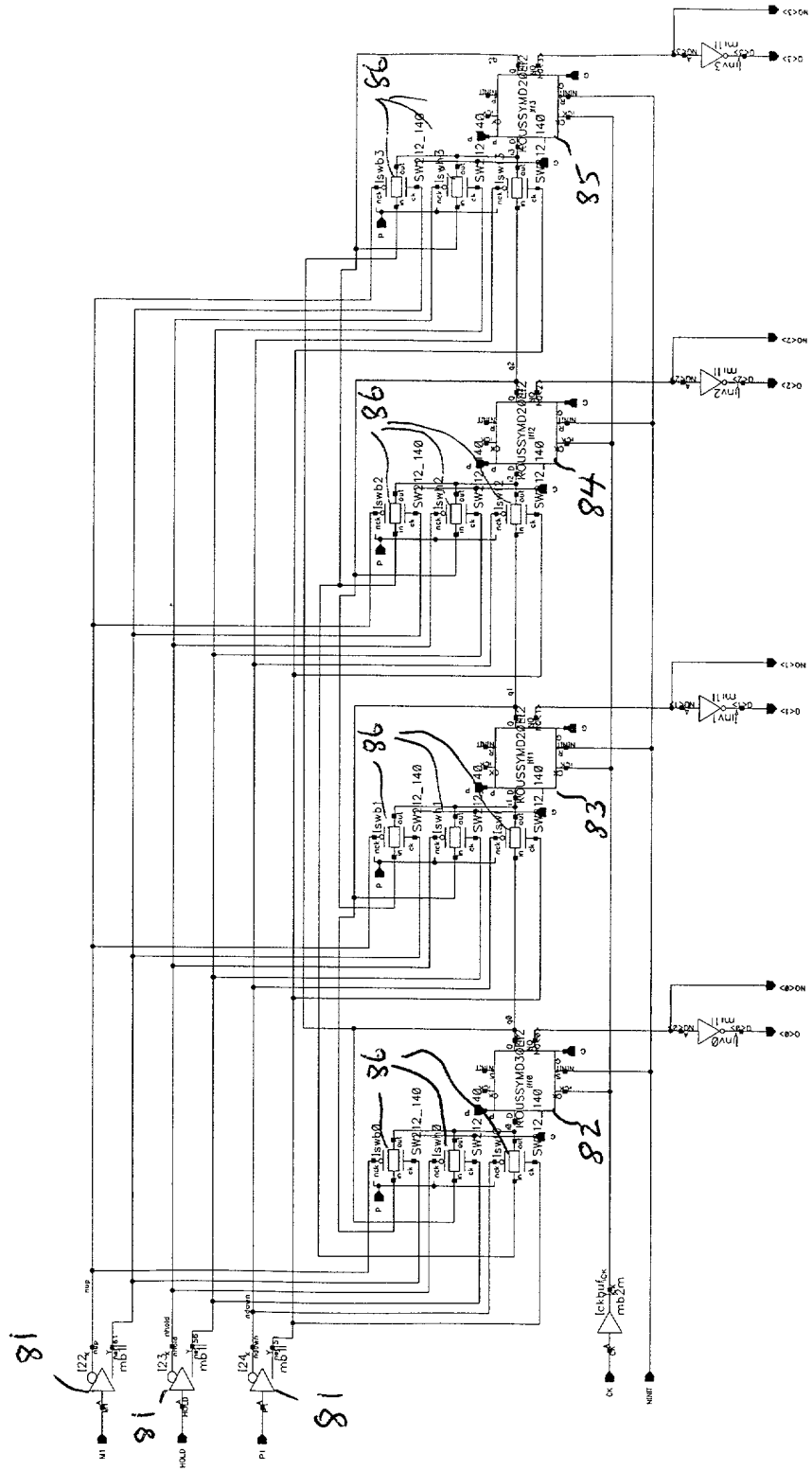


FIG 9a

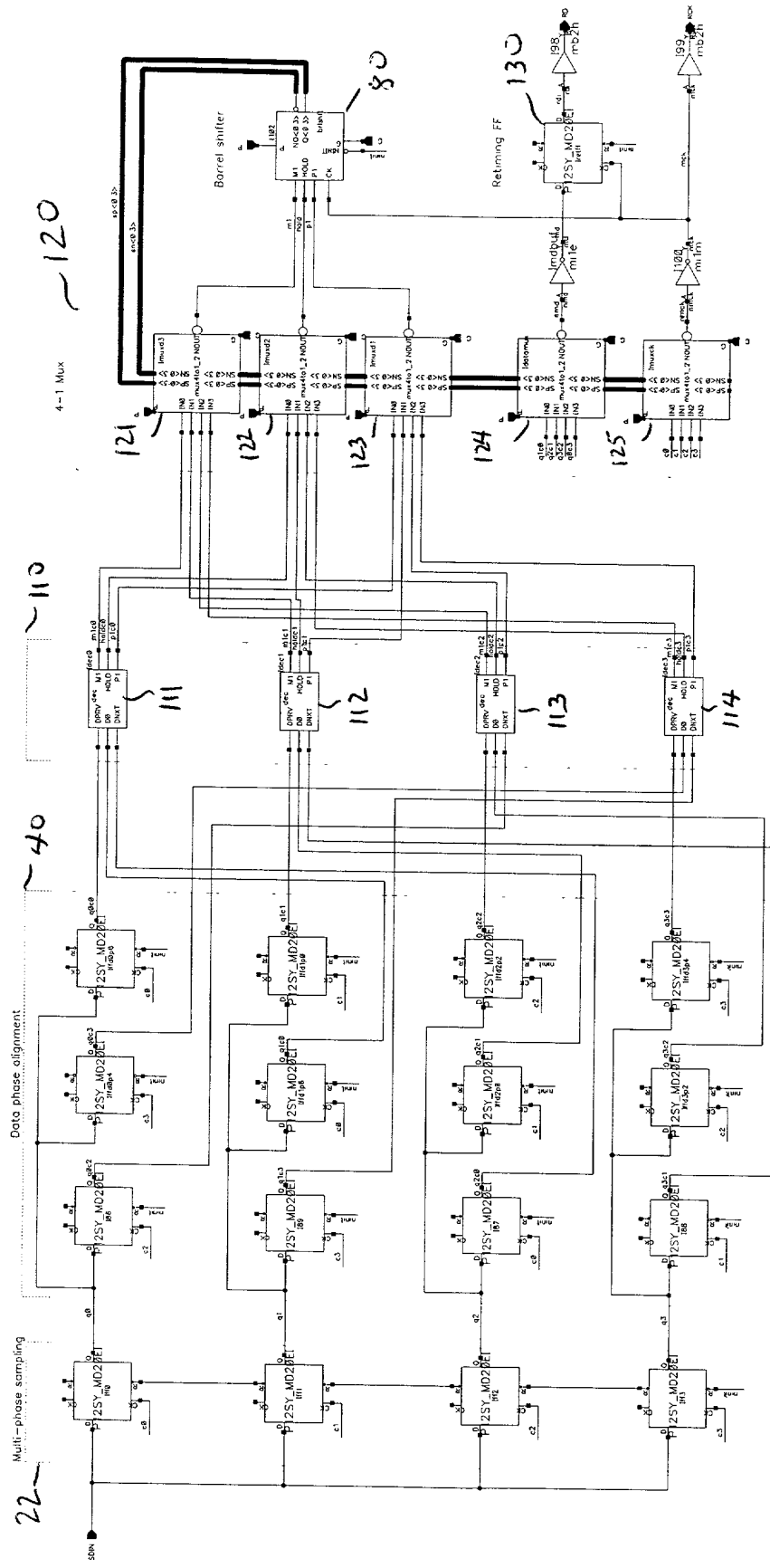
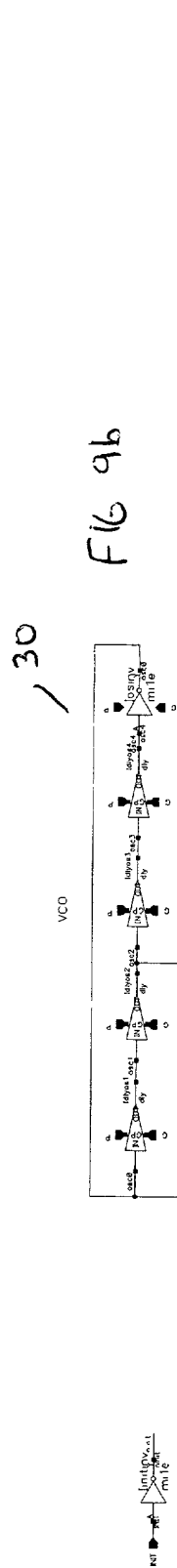


FIG 9b



Wave	Symbol
D0:A0.v(rck)	X
D0:A0.v(rd)	○

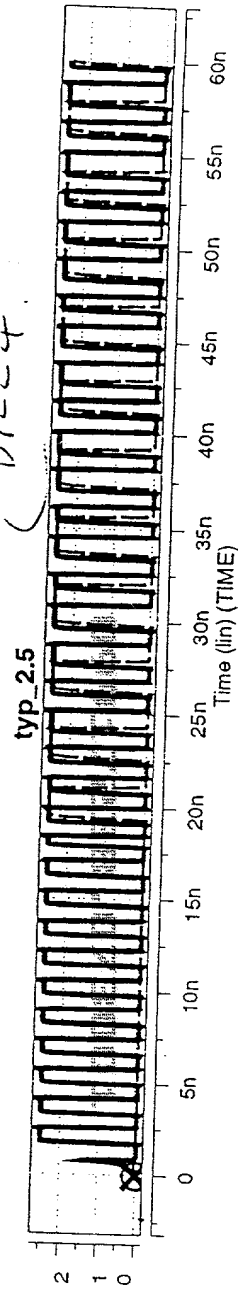


FIG. 10a

Wave	Symbol
D0:A0.v(sp<0>)	X
D0:A0.v(sp<1>)	○
D0:A0.v(sp<2>)	△
D0:A0.v(sp<3>)	□

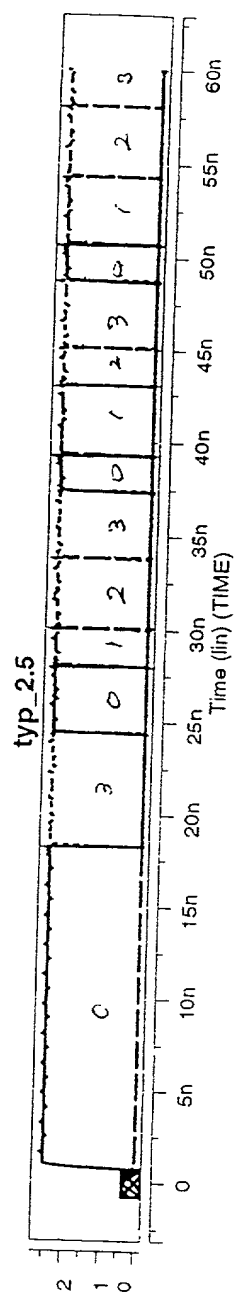


FIG. 10b

Wave	Symbol
D0:A0.v(m1c0)	X
D0:A0.v(holdc0)	○
D0:A0.v(p1c0)	△

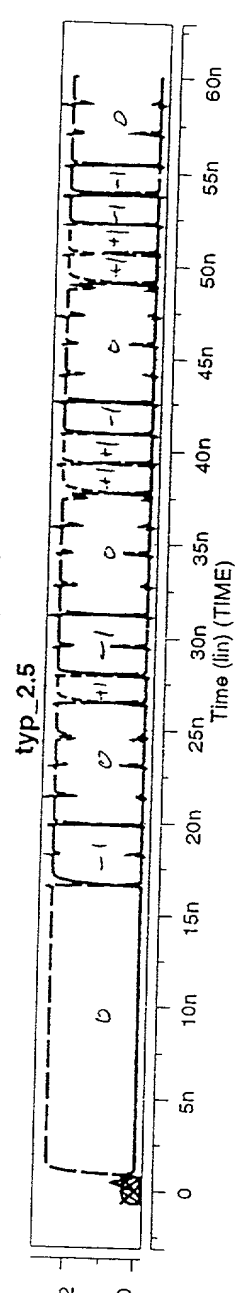


FIG. 10c

Wave	Symbol
D0:A0.v(m1c1)	X
D0:A0.v(holdc1)	○
D0:A0.v(p1c1)	△

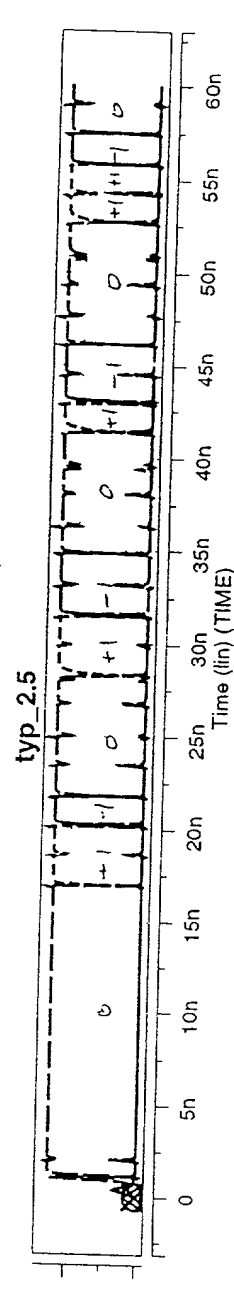


FIG. 10d

Wave	Symbol
D0:A0.v(m1c2)	X
D0:A0.v(holdc2)	○
D0:A0.v(p1c2)	△

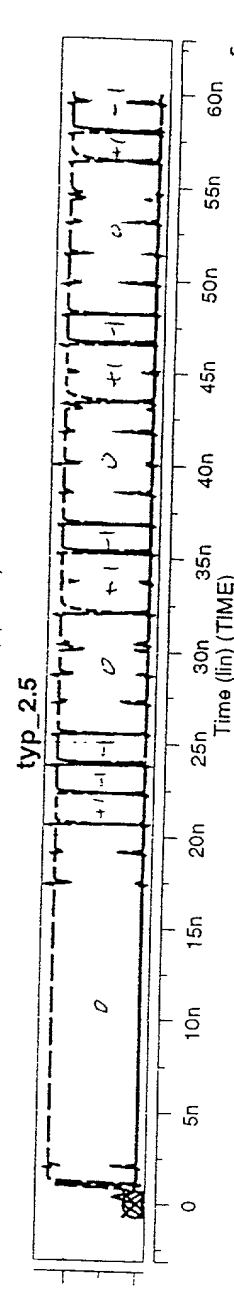


FIG. 10e

Wave	Symbol
D0:A0.v(m1c3)	X
D0:A0.v(holdc3)	○
D0:A0.v(p1c3)	△

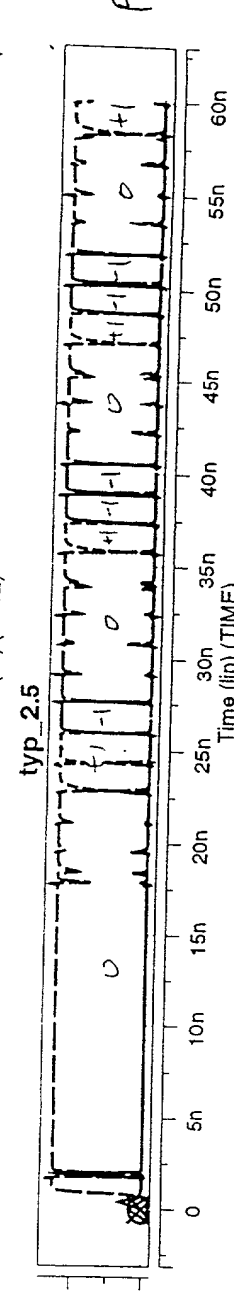


FIG. 10f





Wave	Symbol
D0:A0:v(sp<0>)	○
D0:A0:v(sp<1>)	△
D0:A0:v(sp<2>)	□
D0:A0:v(sp<3>)	⊗

Wave	Symbol
D0:A0:v(up)	△
D0:A0:v(down)	□
D0:A0:v(hold)	⊗

Wave	Symbol
D0 A0 v(p0)	⊗
D0 A0 v(p2)	⊗
D0 A0 v(p4)	⊗
D0 A0 v(p6)	⊗
D0 A0 v(sin)	⊗

Wave	Symbol
D0:A0:v(rck)	⊗
D0 A0 v(rd)	⊗

typ\_2.5

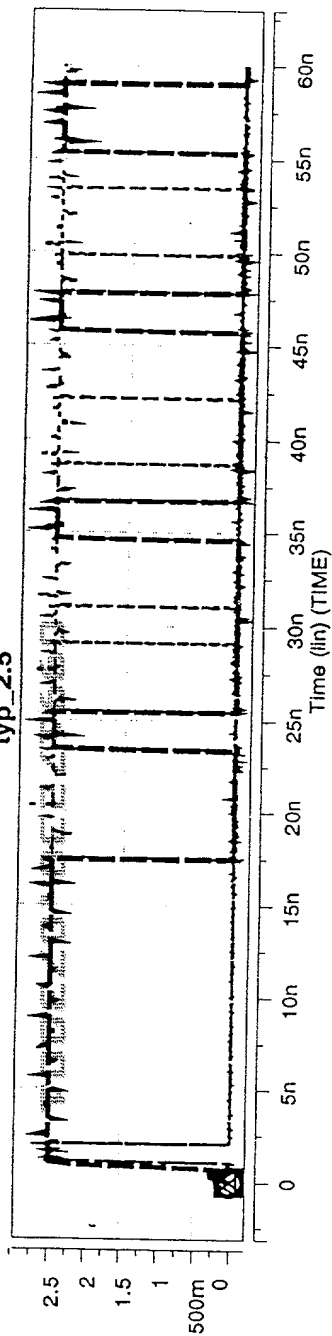


FIG. 12a

typ\_2.5

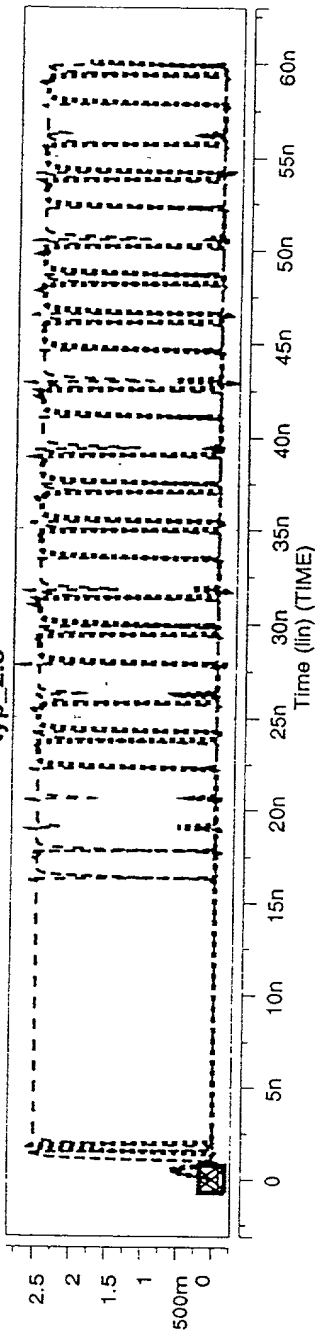


FIG. 12b

typ\_2.5

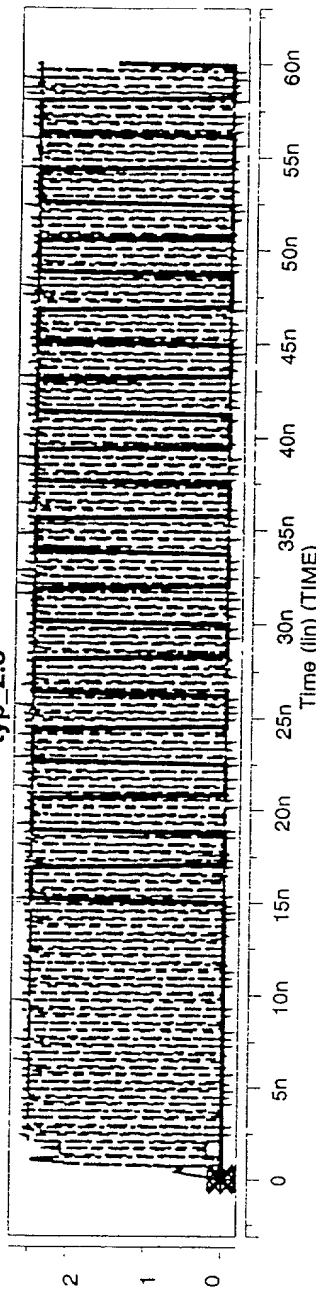


FIG. 12c

typ\_2.5

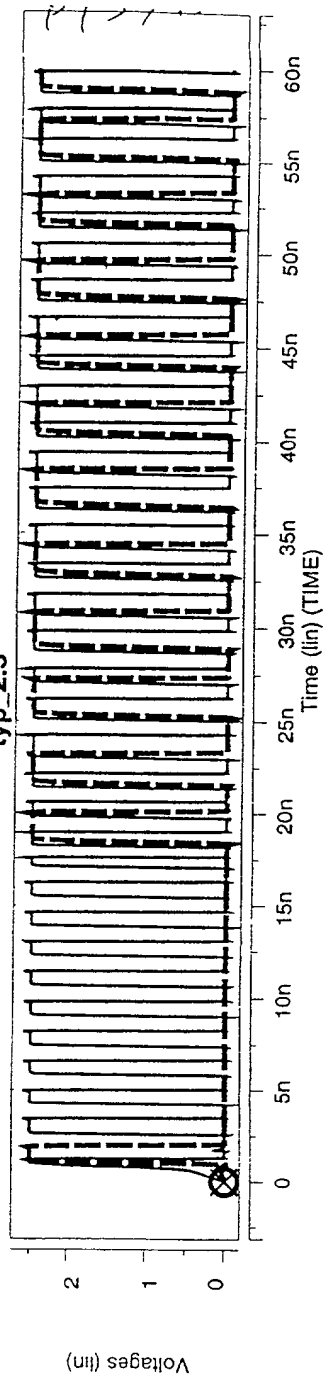
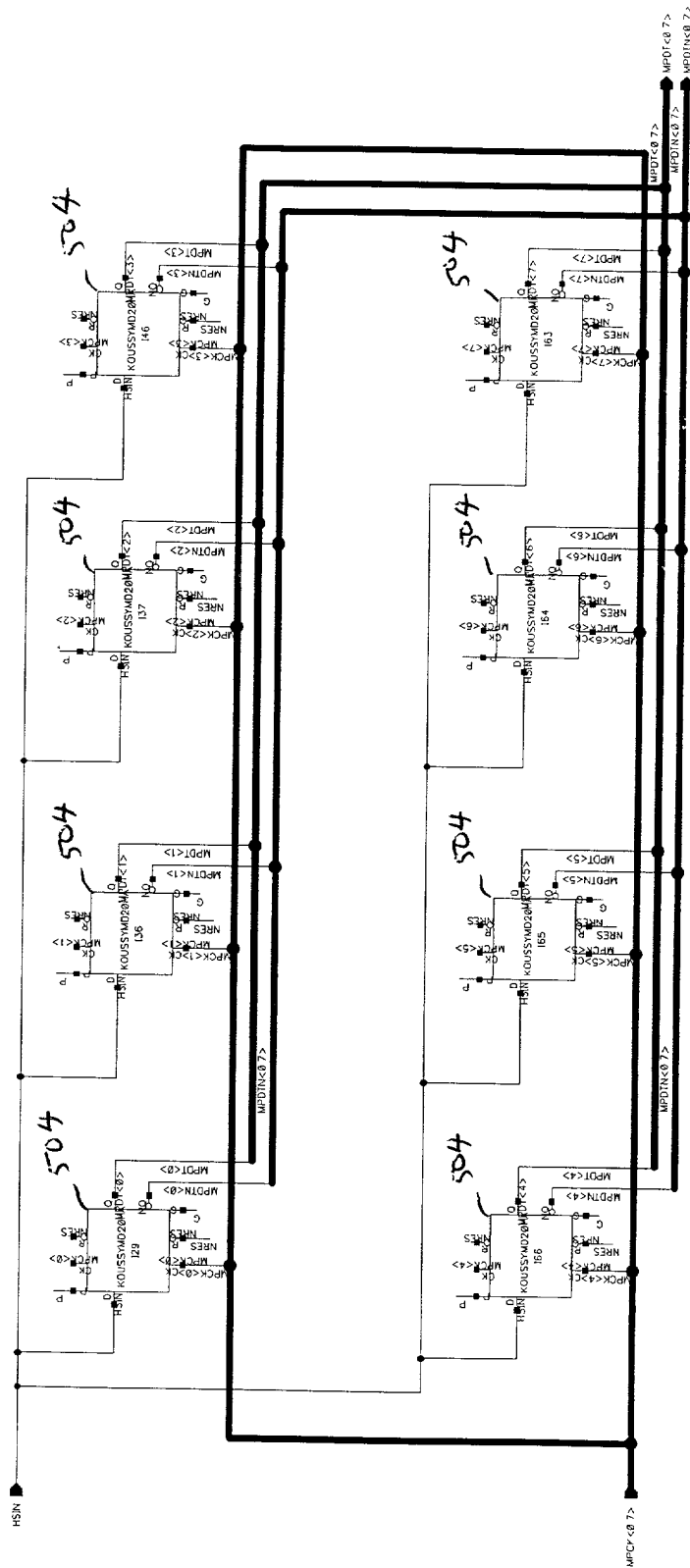


FIG. 12d

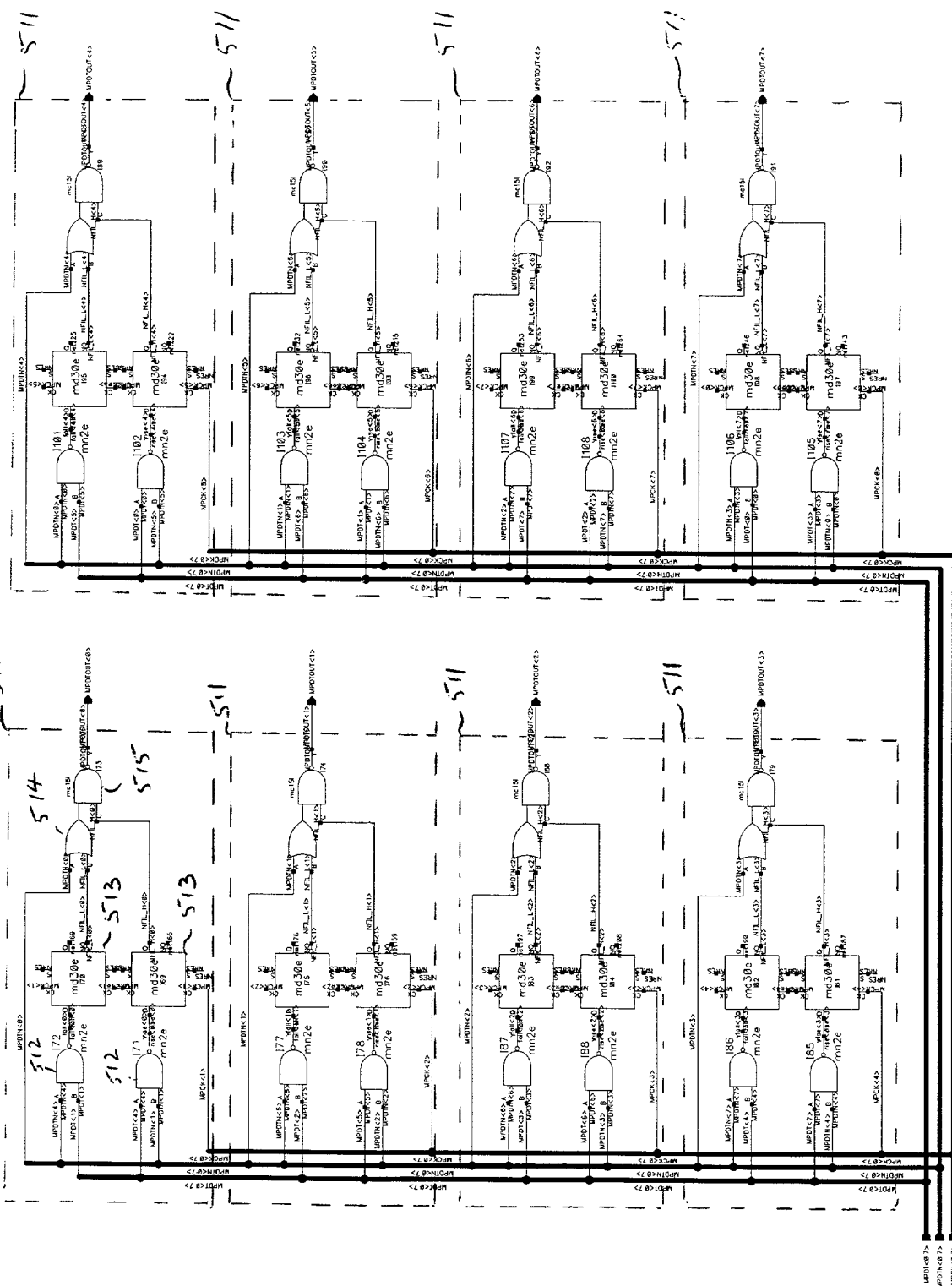
F16 13



F16.14



517



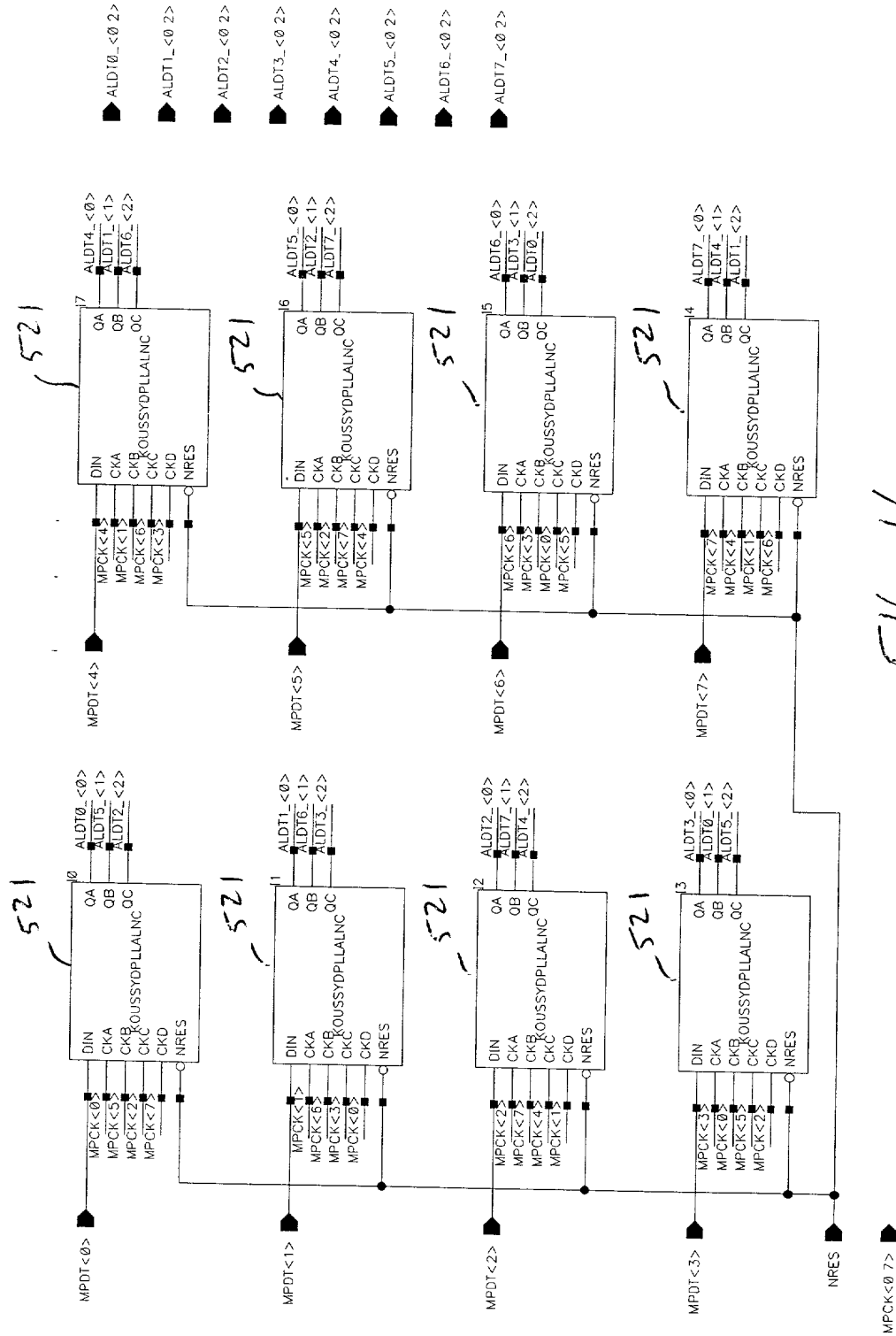
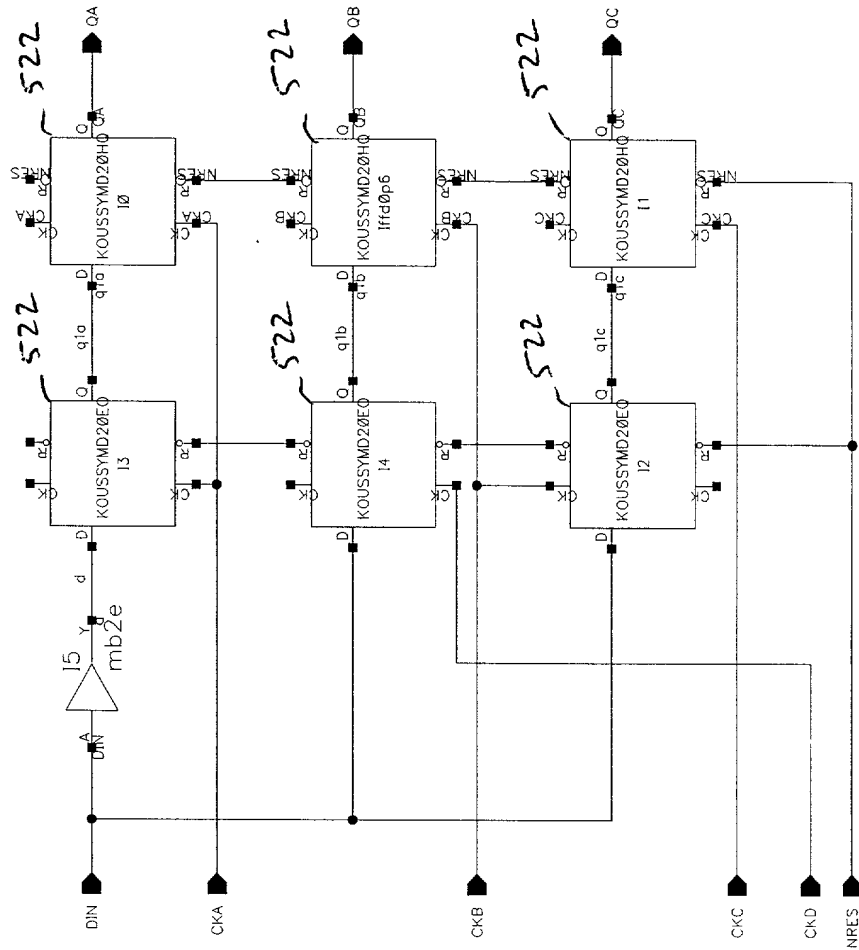


FIG. 16



F16.17

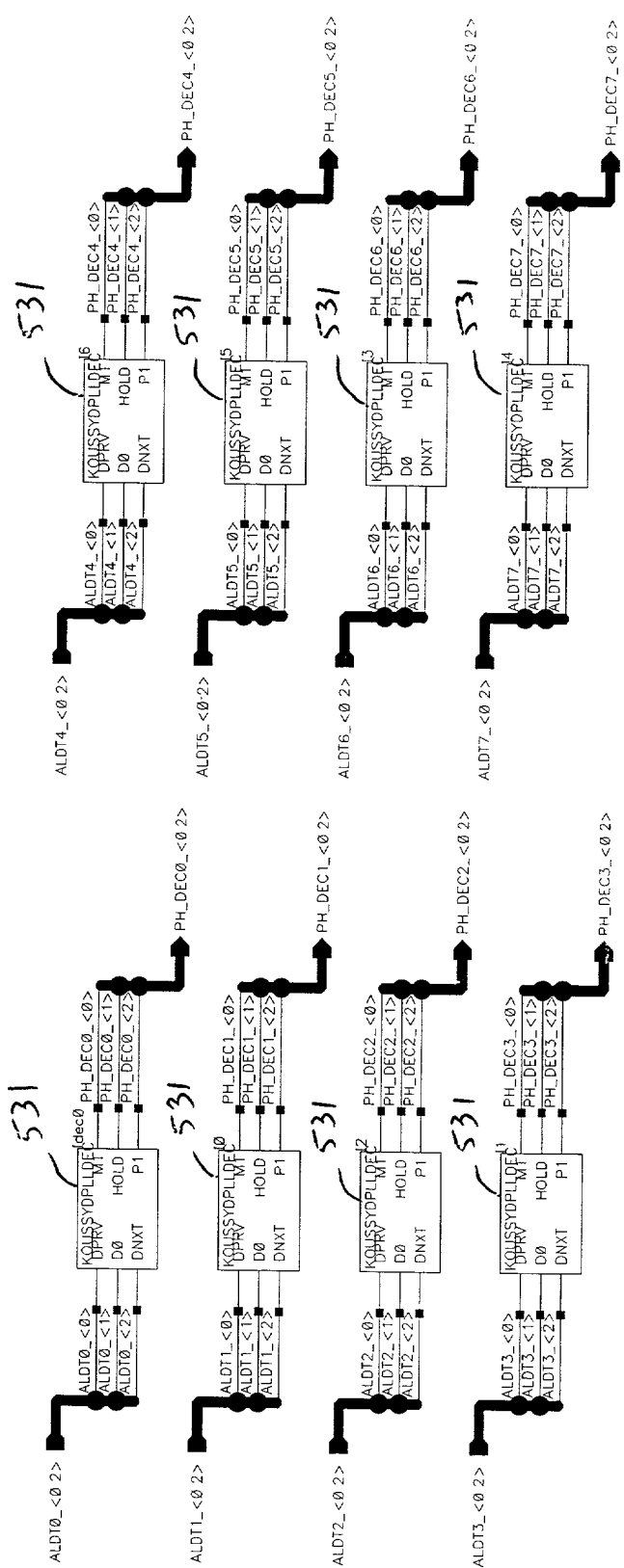
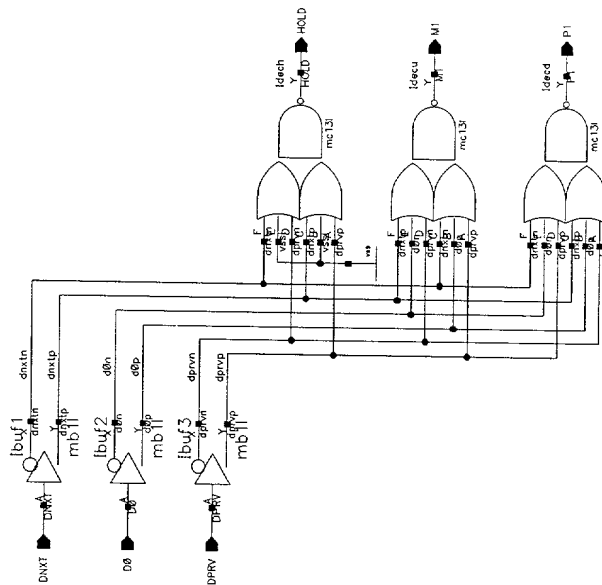


FIG. 10



FIG. 19

FIG. 20



DPRV	D0	DNXT	M1	HOLD	P1
H	H	L	H	L	L
L	H	H	L	L	L
L	L	L	L	H	L
L	L	L	L	L	H
L	H	L	L	L	H

Figure 20

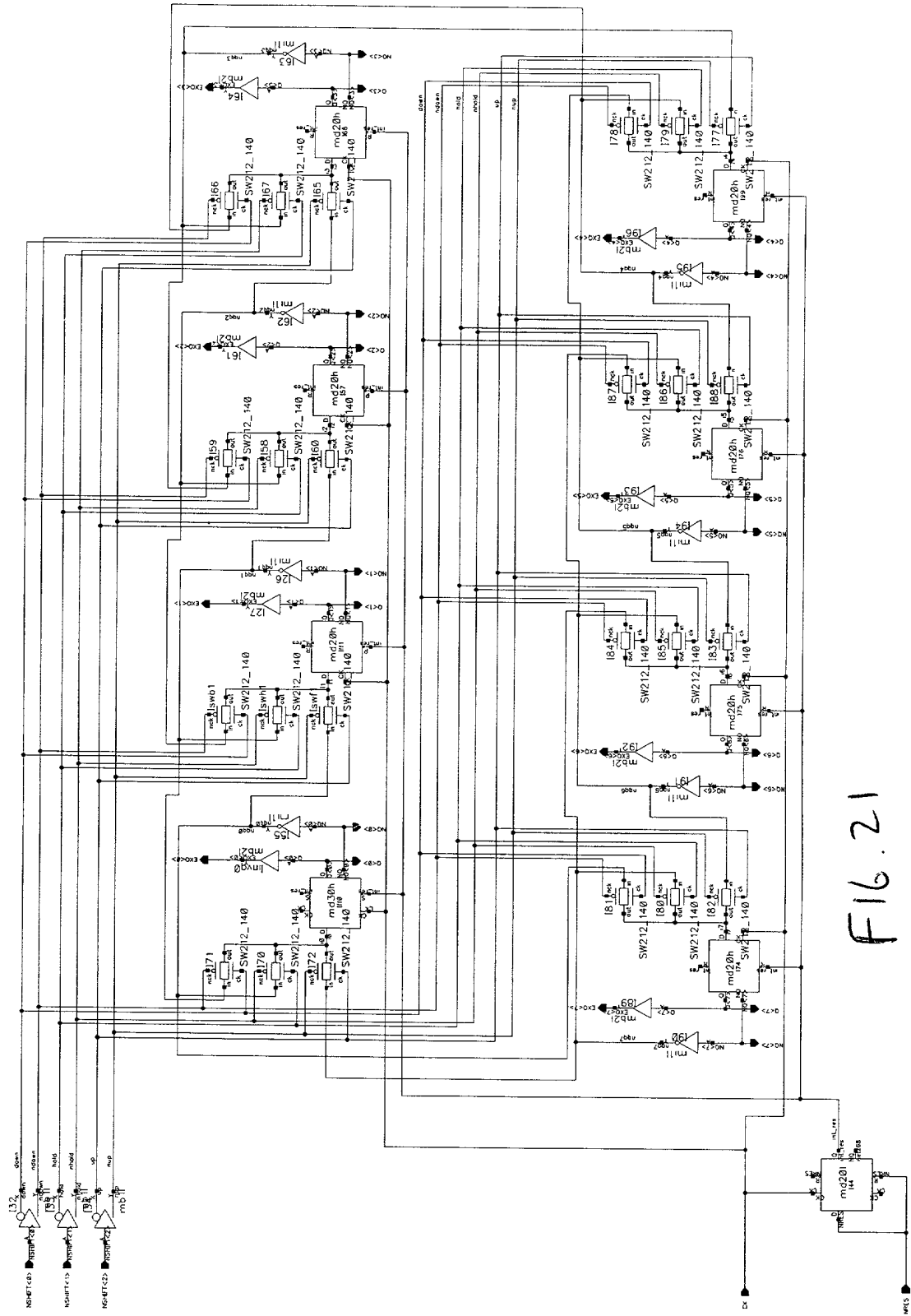
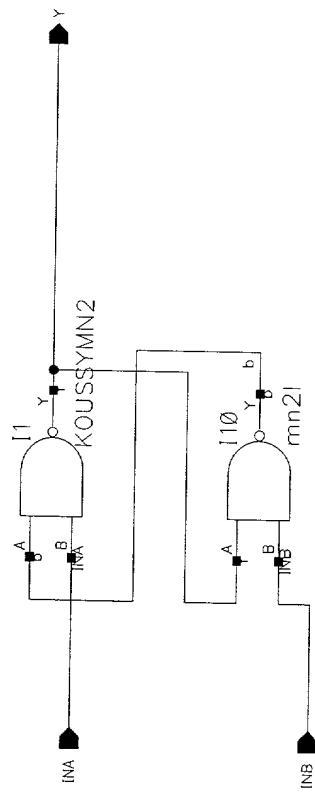


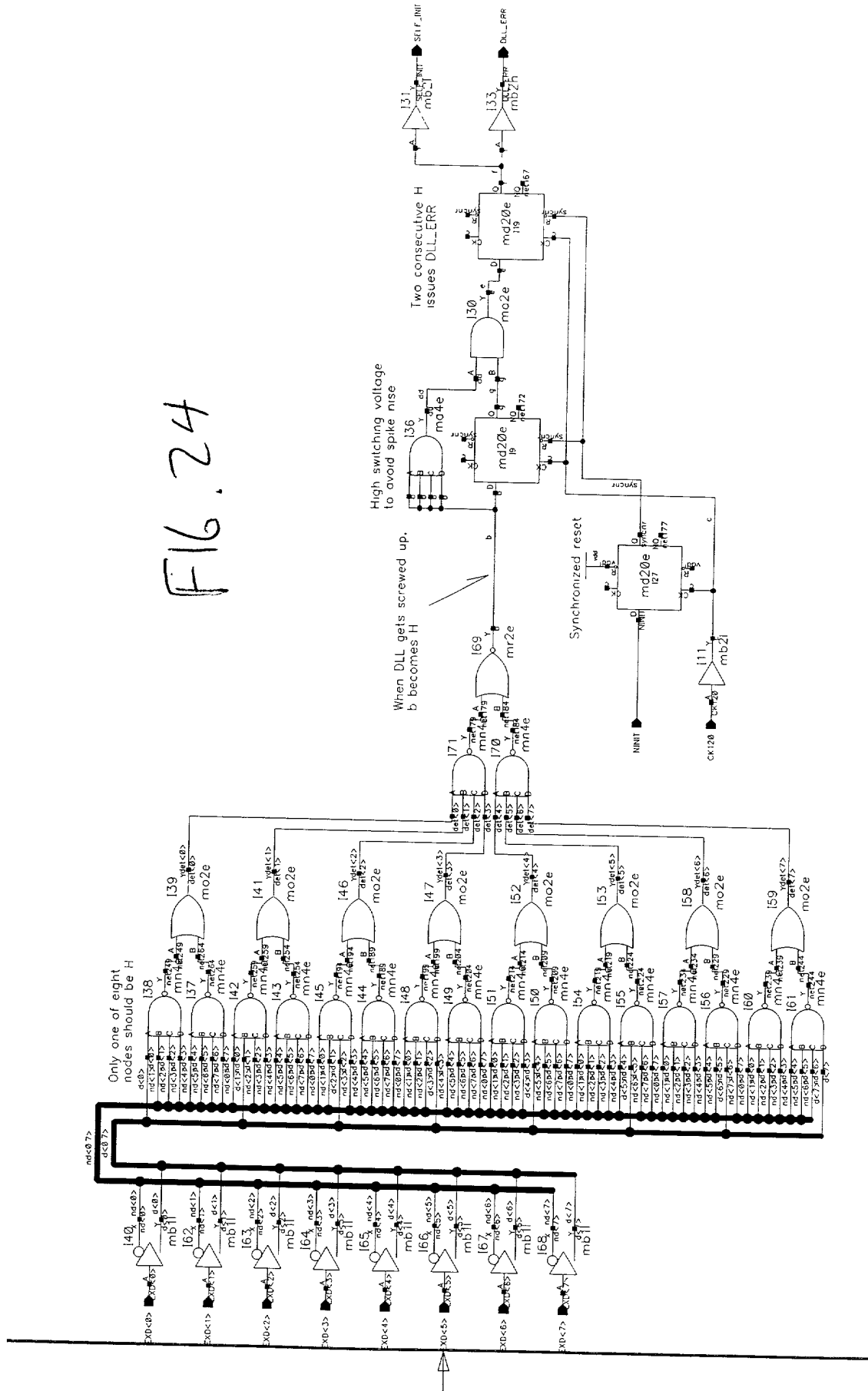
FIG. 21



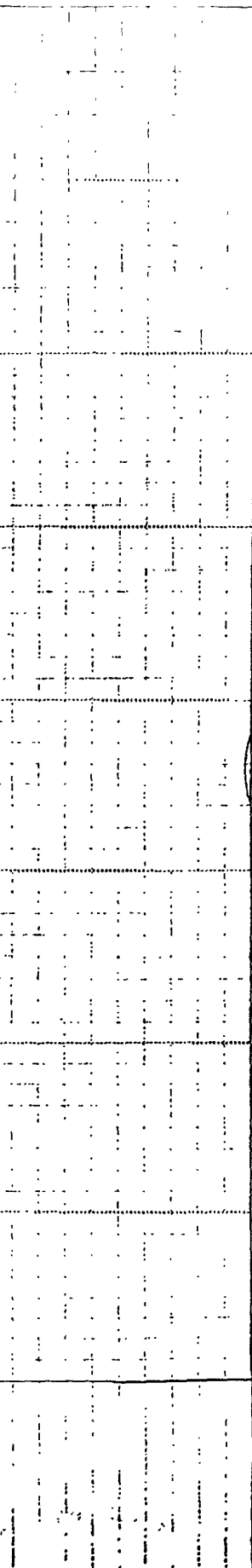
[illegible]

F16.23

FIG. 24

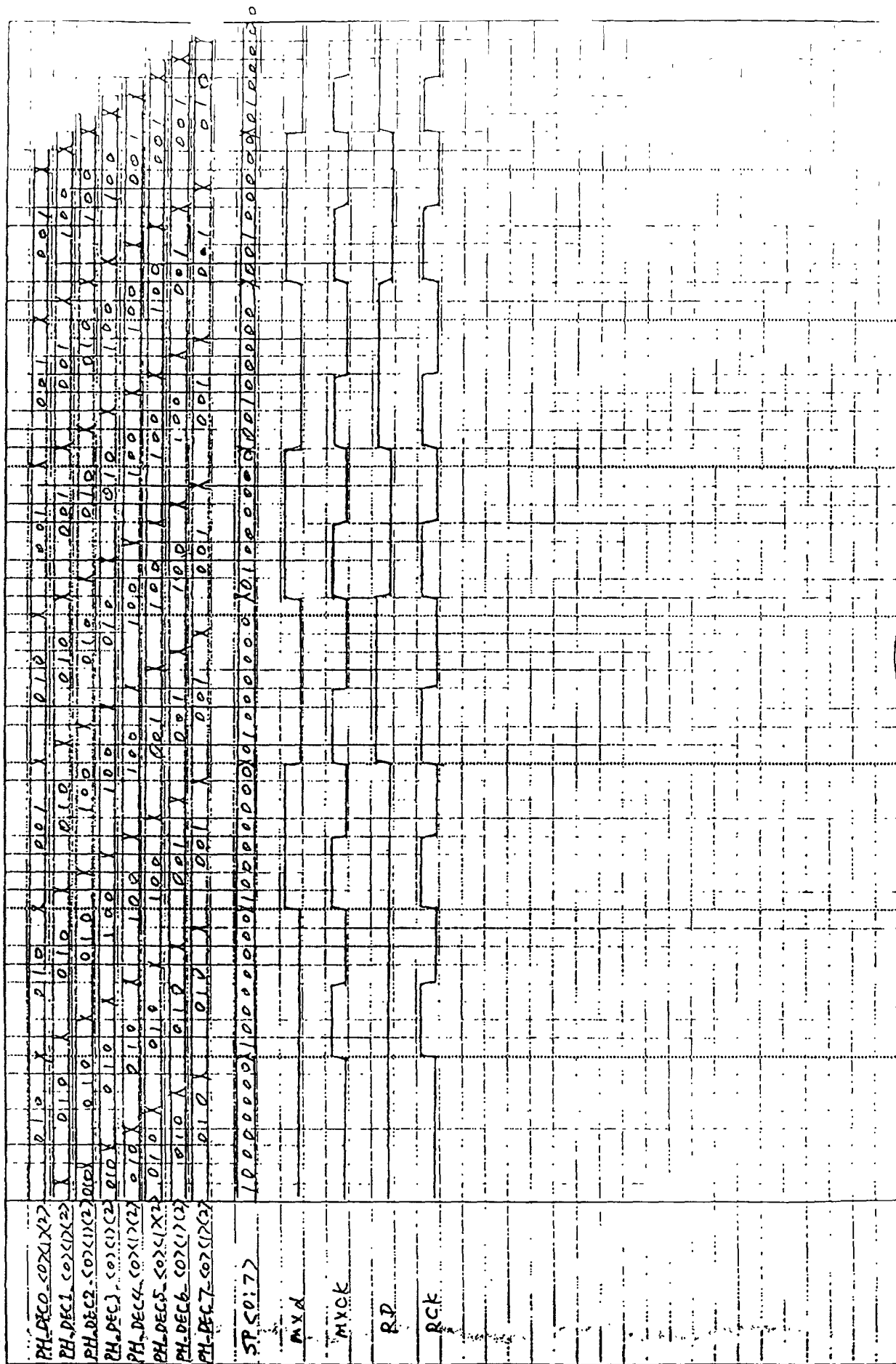


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[illegible]

95b



FOURCO BEB 27660

FLG 25c

KOUSSYDPLLMNP

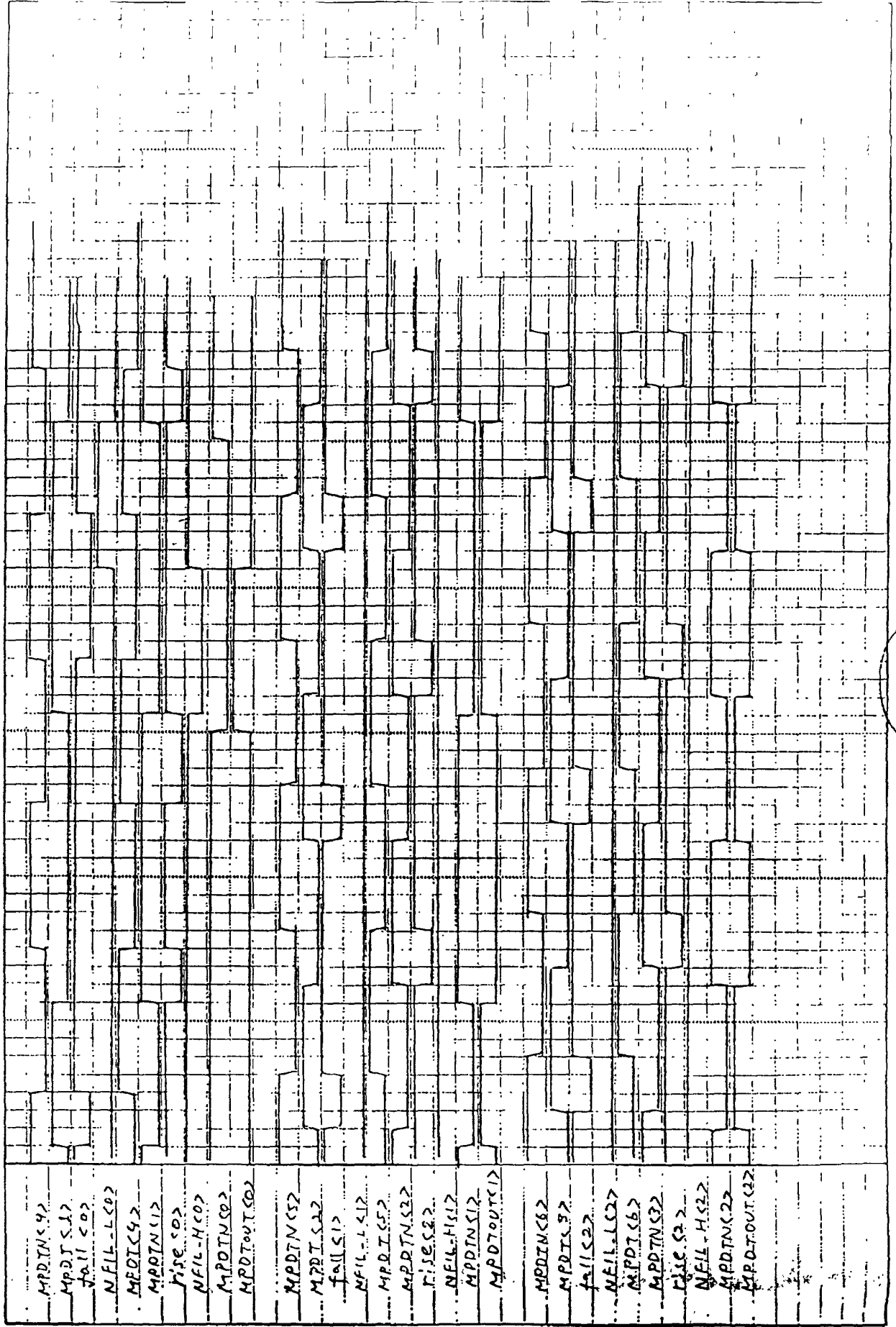
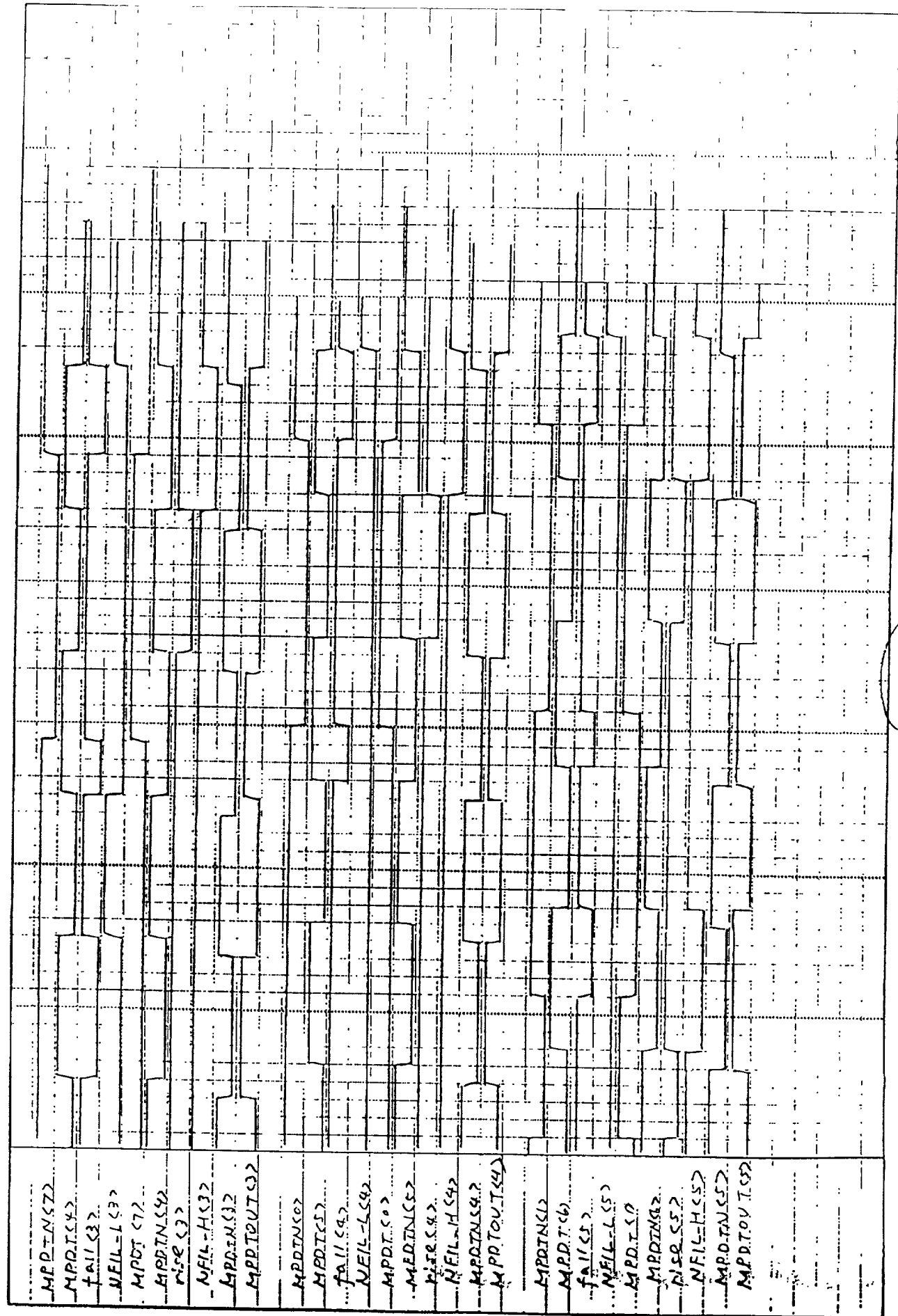




TABLE 20-822/1650

FK. 25d



**THE**

Fig. 250

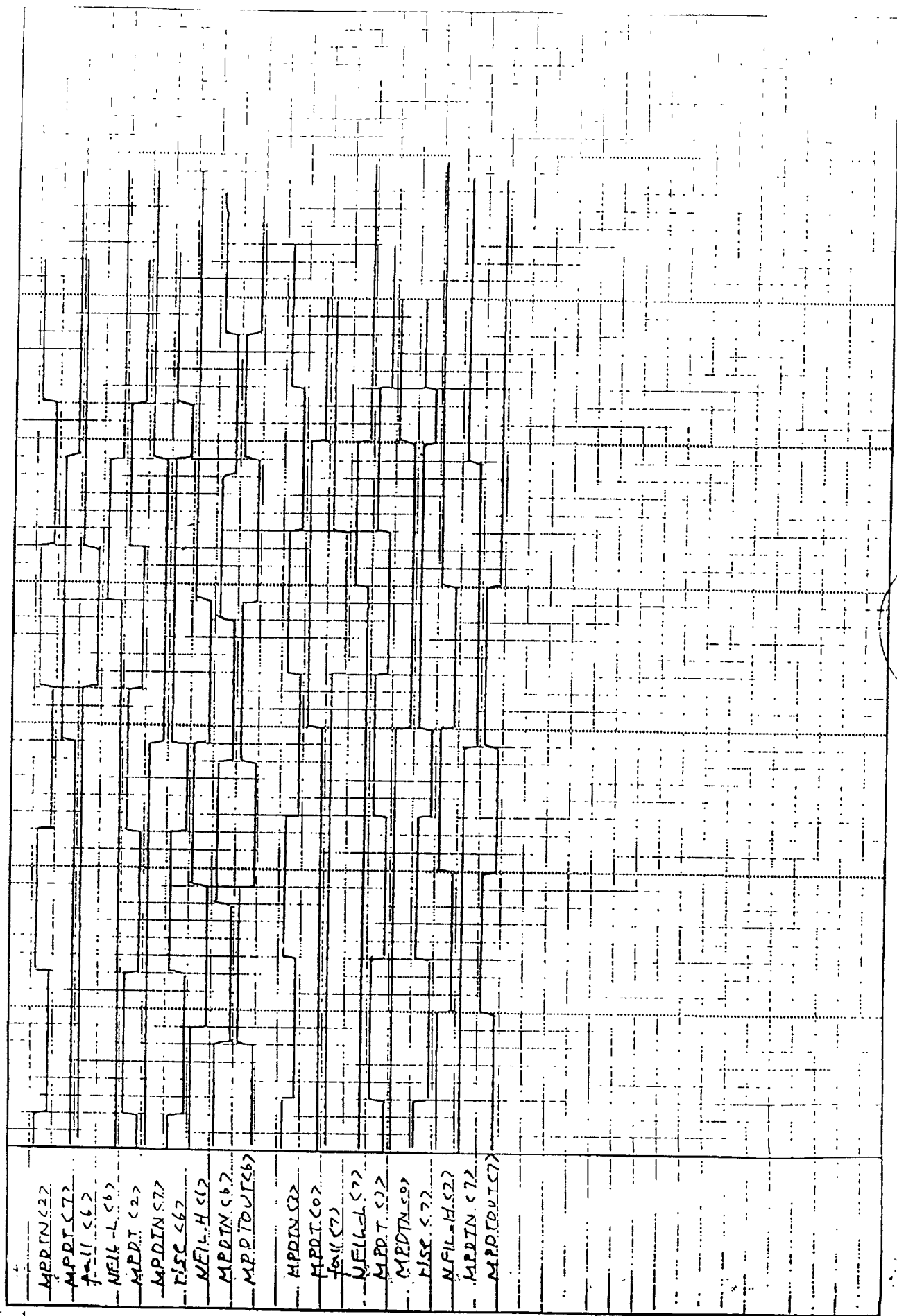


Fig 25f

KOUSSYDPLALN

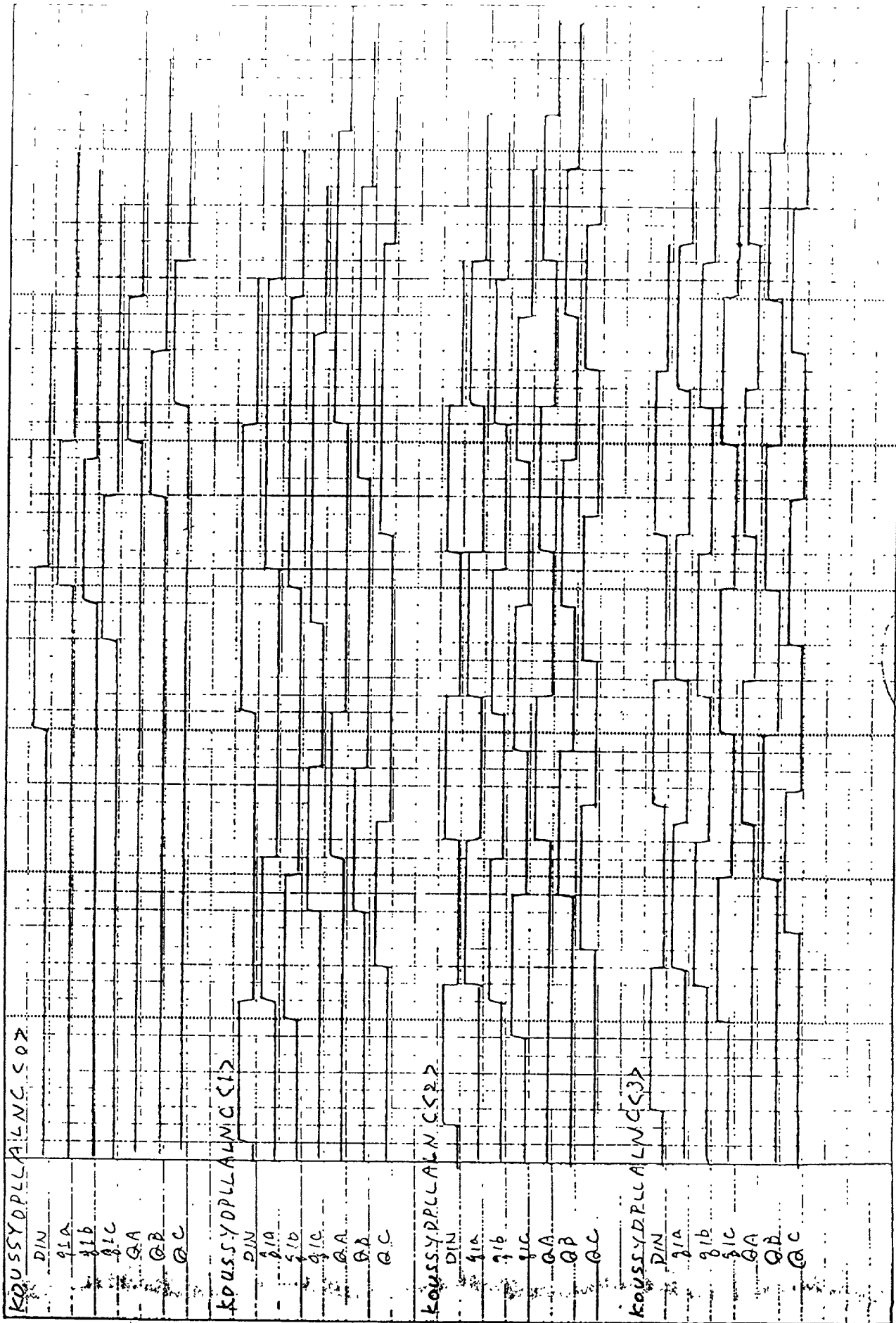
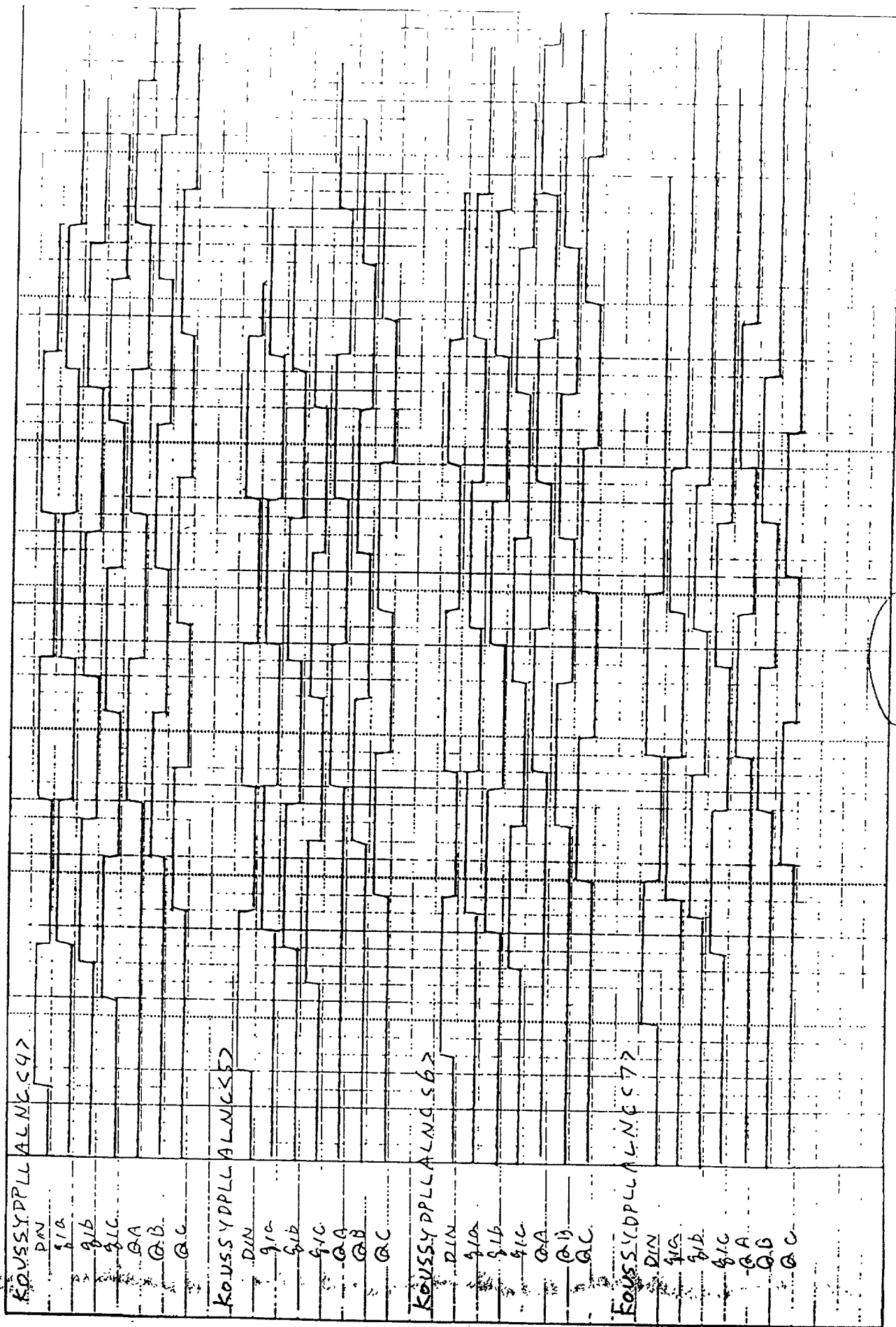


FIG. 25g



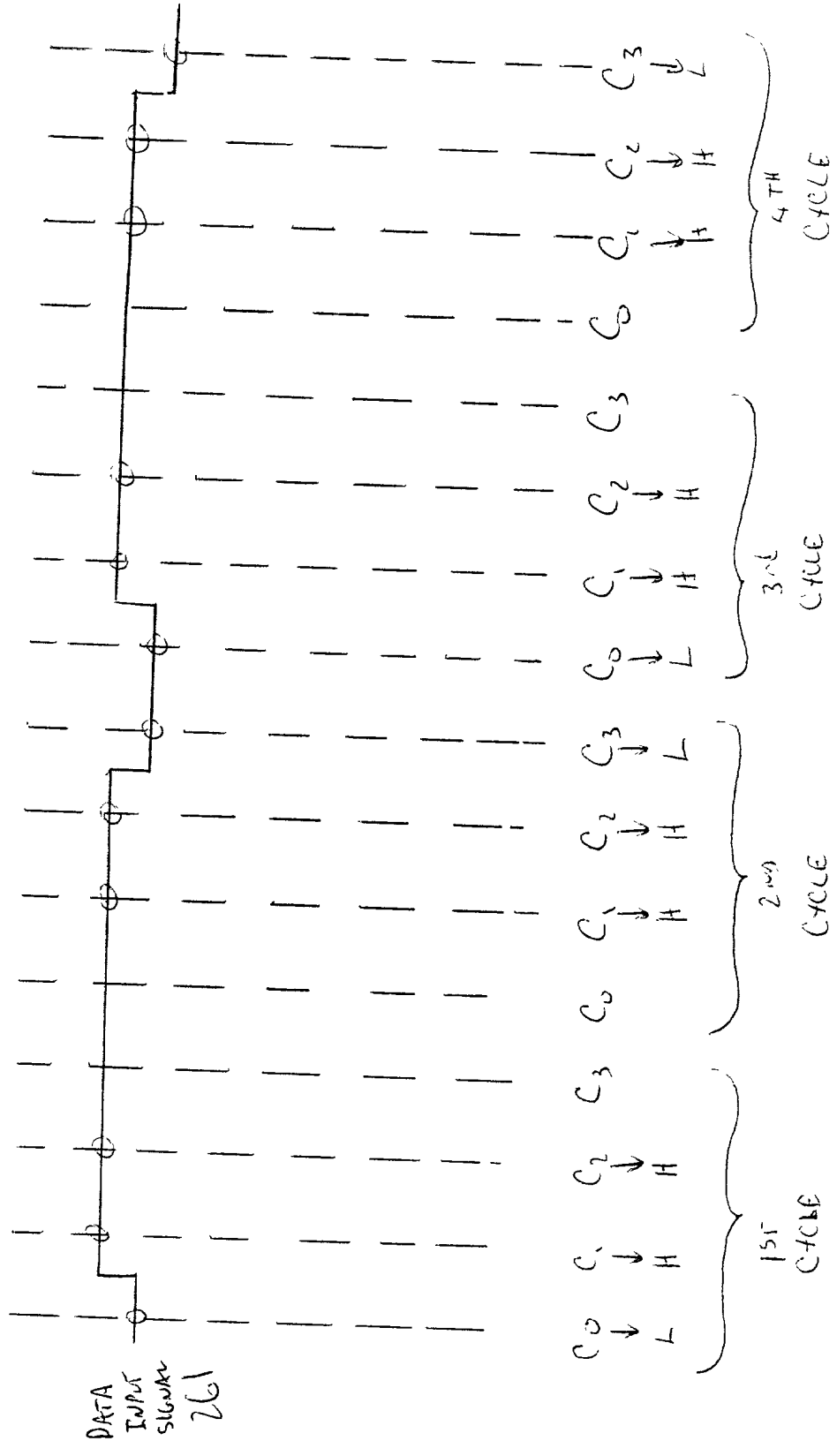


FIG. 26